



HOSE HALTERS™

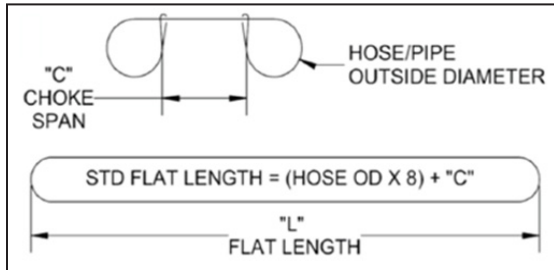
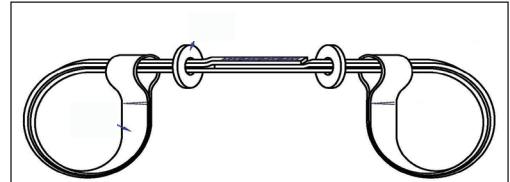
Help protect your workers from injury and your equipment from damage

When pipe or hose couplings fail under pressure, *Lift-All Hose Halters* minimize thrashing to reduce equipment damage and personal injury. Suitable for use on pneumatic, water, and hydraulic pipes and hoses, these easy to install straps are made from strong, flexible nylon webbing. Slide the rubber grommets to keep choked eyes snug on the hose. The standard lengths will accommodate pipes and hoses with inside diameters of 1/4" up to 6". Meets both OSHA and Canada OHS requirements for restraining devices on pipe and hose connections.

Specials



Available in Four Different Strengths



Hose Halter Selection and Use

When securing hoses and pipe connections, do not exceed the specified pressure ratings.

The length of *Hose Halters* are ordered as a flat length based on a value equal to 8 times the Hose OD, plus the desired span or gap between the choke points and rounded up to standard sizes shown below.



**OSHA
1926.603(a)(10)
states:**

"Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected"

Recommended for Use on the Following Pipe and Hose Inside Diameters										
Part Number	Length (in.)	Color	1/4"	1/2"	3/4"	1"	2"	3"	4"	6"
			Hose Maximum Internal Pressure (PSI) at above hose I.D.							
HH122*	22"	ORANGE								
HH130	30"									
HH140	40"		26,000	6,500	2,900	1,650	400	175	100	50
HH144	44"									
HH164	64"									
HH230*	30"									
HH244	44"	YELLOW	52,000	13,000	5,800	3,300	750	350	200	90
HH264	64"									
HH274	74"									
HH330*	30"									
HH344	44"		n/a	29,000	13,000	7,300	1,800	820	460	200
HH364	64"									
HH430*	30"	YELLOW								
HH444	44"		n/a	37,000	16,000	9,400	2,300	1,040	580	260
HH464	64"									

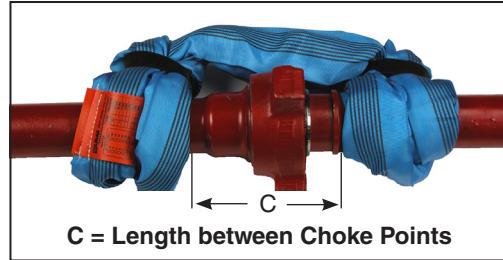
*Minimum Length

ROUNDONE™

The Heavy Duty Solution for Coupling Safety

Help protect your workers from injury and your equipment from damage when pipe or hose couplings fail under pressure.

RoundOne pipe and *Hose Halters* offer protection for a wide range of pipe and hose sizes and pressures. Suitable for use on pneumatic, water, and hydraulic pipes and hoses. Available sizes cover inside diameters from 1/2" through 8", with pipe/hose pressures up to 85,100 psi. Complies with OSHA, Canada OHS and Work Safe BC requirements for restraining devices on pipe and hose connections.



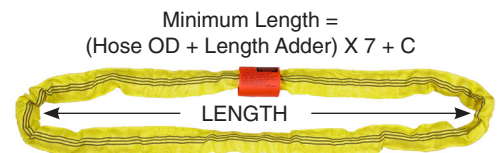
What size do you need?

1. In the chart below, find the row for your **Pipe/Hose Inside Diameter**.
2. Read across that row until you come to a **Maximum Hose Pressure** that exceeds the maximum pressure that will go through your pipe/hose.
3. The appropriate halter part number for that assembly is at the top of that column.

PART NO.	HHS3	HHS6	HHS9	HHS12	HHS15	HHS18	HHS24	HHS28	HHS36
Minimum Length	20"	20"	24"	36"	36"	36"	36"	36"	44"
Pipe/Hose ID	MAXIMUM PIPE / HOSE PRESSURE (PSI)								
0.50"	23,500	47,900	76,000	n/a	n/a	n/a	n/a	n/a	n/a
0.75"	10,400	21,300	33,700	42,600	53,100	67,400	85,100	n/a	n/a
1"	5,800	11,900	19,000	23,900	29,800	37,900	47,800	57,400	70,100
1.5"	2,600	5,300	8,400	10,600	13,200	16,800	21,200	25,500	31,100
2"	1,470	2,900	4,700	5,900	7,400	9,400	11,900	14,300	17,500
3"	650	1,300	2,100	2,660	3,300	4,200	5,300	6,300	7,700
4"	360	740	1,180	1,490	1,860	2,370	2,900	3,500	4,300
5"	230	470	760	950	1,190	1,510	1,910	2,200	2,800
6"	160	330	520	660	820	1,050	1,320	1,500	1,940
8"	90	180	290	370	460	590	740	800	1,090
Length Adder	.3	.6	0.9	1.2	1.5	1.8	2.4	2.8	3.6

What Length do you need - Order Halters by the Flat Length

1. Order Halters by the flat length. To determine the minimum length, add the hose diameter (OD) to the length adder (per chart), then multiply by 7 and add the minimum desired length between the choke points (C).
2. Round up to the next even 6" increment (42", 48", 54", 60", etc.).
3. Example: Your 1" ID hose carries 30,000 psi. Using the chart above, the first *Hose Halter* to exceed that rating is an HHS18. The OD of your hose is 1.5", and you want 16" between choke points. The calculation is follows:
4. $(1.5 + 1.8) \times 7 + 16 = 39.1"$ (rounded up to 42").
5. The complete part number is **HHS18X42IN**.



Specials

TOW-ALL™ VEHICLE RECOVERY STRAPS

Vehicle recovery straps aid in removing vehicles stranded in snow, mud, sand and ditches.

Specials

Features and Benefits

Promotes Safety

- No dangerous hooks or metal parts.
- Elongates 5% at rated capacity to help absorb the energy of sudden loading.

Saves Money

- Polyester/nylon material is gentle on painted and plated surfaces.

Saves Time

- Lightweight and flexible, making them easy to use and store.

Safe Operating Practices

- Do not use a damaged or defective strap.
- Inspect before each use.
- Do not exceed rated capacity.
- Do not tie knots in strap.
- Do not attach to bumpers.
- Avoid dragging strap on ground.
- The strap is permanently damaged when exposed to temperatures in excess of 200°F. Avoid muffler and hot exhaust systems.
- Stand clear of strap and vehicles when under load.
- Always protect straps from being cut by corners and edges.
- Store in cool, dry and dark location.

Note: *Lift-All* believes recovery straps with metal end fittings are dangerous and, therefore, will not put metal hardware on *Tow-All* straps.

TOW-ALL VEHICLE RECOVERY STRAP



Tow-All vehicle recovery straps are made from strong, durable, weather-resistant *Tuff-Edge II* webbing which will not rot or mildew. The straps feature sewn eyes lined with premium abrasion resistant material, and attach quickly to vehicle frames or towing hooks.

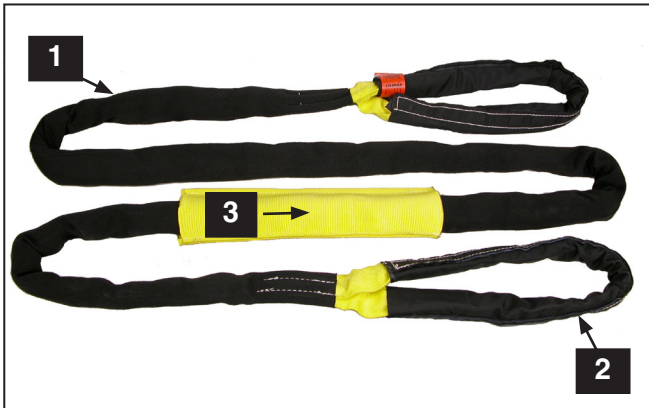
Part Number	Web Plies	Web Width	Assembly Breaking Strength* (lbs.)	Towing Capacity* (lbs.)
TS1802T	1	2	16,000	5,300
TS2802T	2	2	32,000	10,700
TS1803T	1	3	24,000	8,000
TS2803T	2	3	43,000	14,300
TS1804T	1	4	32,000	10,600
TS2804T	2	4	57,500	19,100
TS1806T	1	6	48,000	16,000
TS2806T	2	6	81,500	27,100

* Assembly breaking strength when new.

* Do not exceed towing capacity.

TUFLEX® TOW-ALL™ VEHICLE RECOVERY STRAPS THE HEAVY DUTY RECOVERY STRAPS!

Tuflex Tow-All straps are designed to prevent dangerous recoil.



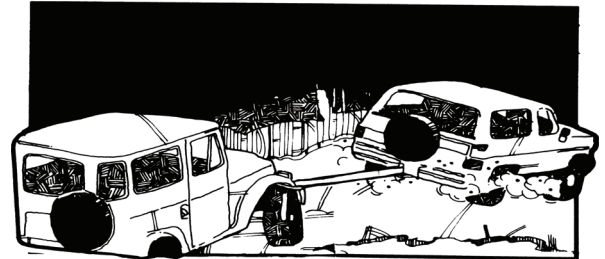
Our *Tuflex* version of the *Tow-All* strap offers the most rugged synthetic strap on the market. We start with our standard *Tuflex* Roundsling:

- 1** Add an additional jacket of texturized, abrasion resistant nylon, installed over the body, creating an eye/eye style.
- 2** The eyes are then covered with ballistic nylon material for additional protection.
- 3** An 18" long sliding sleeve wear pad provides added protection against load edges.

Inspection Criteria for all *Tow-All* Vehicle Recovery straps:

Remove from service if any of the following are visible:

- Signs of melting, charring or chemical damage.
- Holes, tears, snags, or cuts on the face or edge of webbing.
- Visible signs of damages exposing core yarns (*Tuflex Tow-All*).
- Signs of excessive abrasive wear.
- Broken or worn threads in the stitch patterns.
- Any other visible damage.
- Knots.
- Illegible or missing identification tag.



Specials

Part Number	Assembly Breaking Strength* (lbs.)	Towing Capacity+ (lbs.)
TSEN90X20	42,000	14,000
TSEN90X30		
TSEN120X20	52,500	17,500
TSEN120X30		
TSEN150X20	66,000	22,000
TSEN150X30		
TSEN180X20	84,000	28,000
TSEN180X30		
TSEN240X20	105,900	35,300
TSEN240X30		
TSEN360X20	154,800	51,600
TSEN360X30		
TSEN600X20	264,900	88,300
TSEN600X30		
TSEN800X20	330,000	110,000
TSEN800X30		
TSEN1000X20	450,000	150,000
TSEN1000X30		

* Assembly breaking strength when new.
+ Do not exceed towing capacity.

Refer to photographs of damaged webbing in the WEB section of this catalog.

Refer to photographs of damaged *Tuflex* roundslings in the ROUNDSLINGS section of this catalog.

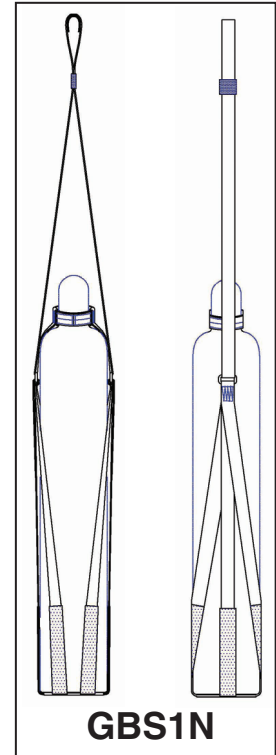
GAS BOTTLE WEB CRADLES

These specialty web cradles allow easy and secure lifting of your gas bottle cylinders into position. Two standard versions are available. **GBS1N** automatically adjusts to accommodate 9" Dia. X 50" H to 13" Dia. X 39" H bottles. **GBS2N** is designed for the convenient tandem lifting of one oxygen and one acetylene bottle as used in most welding operations. Each assembly is rated to lift 1,000-lbs.

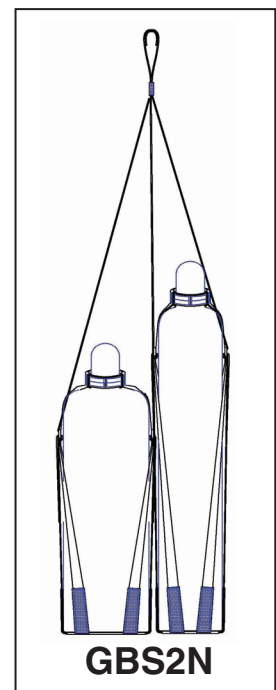
Specials



- Leather reinforced eyes for extended life.
- Top assembly collar fits around standard valve caps to secure top of cylinder.
- Square rings connect bottom and top assemblies and allow for automatic adjustment.
- Six legs on bottom assembly surround and secure base of cylinder.
- Abrasion resistant webbing lines both sides of legs at bottom for longer life.
- 2-ply leather base provides additional protection from abrasion and cutting.



The **GBS2N** has the same construction features as the **GBS1N**, but is designed specifically to lift one each of the standard size oxygen and acetylene bottles commonly used in welding operations.



DRUM HANDLING SLINGS

Lift-All drum handling slings provide an easy, inexpensive way to handle steel drums. Available in two styles to suit your needs for handling drums in the vertical or horizontal position.

Vertical Drum Handling Slings

Easily lift standing drums for transport. Tilt suspended drums to pour from open top or spigot. For use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.

Lightweight version (**DSV601D**) uses 1" polyester sling webbing and is rated for 300-lbs.

Heavyweight version (**DSV602D**) uses 2" polyester sling webbing and is rated for 850-lbs.

Promotes Safety

- A wear pad is sewn on the inside of the lifting strap to prevent damage.
- Ratchet tightens locks securely.

Saves Time

- The free end of ratchet strap is sewn to stay properly threaded.
- Vertical legs are sewn to an adjustable belly band to maintain proper position.



Specials



Horizontal Drum Handling Slings

Ideal for the quick and easy lifting of steel drums in the horizontal position.

Part No. **DSH601D** uses 1" polyester sling webbing and is rated for 1,500 lbs.

Promotes Safety

- Strong 1" polyester webbing pulls drum hooks securely into rims at both ends of the drum during the lift.

Saves Time

- One sling fits multiple size drums.
- Easy to hook-up and disconnect.
- Uses 1/2" diameter oblong link at top for easy connection to hook.

Note: If used in a chemical environment, contact *Lift-All* for sling material options.

BUCKET, COOLER & TRASH BARREL SLINGS

Improve productivity and help protect your workers from injury with these slings.

Specials

Bucket Sling



Lift-All Bucket Slings are designed to lift 5-Gallon buckets filled with up to 200 pounds of material.

- Made from 1" wide yellow polyester sling webbing.
- **Rated capacity: 200-lbs.**
- Designed for buckets with an 11" diameter base.
- Two belly bands keep bucket secure.
- Overall sling height is 28".

Part No. BS5
Weight: 0.8 lbs.

Custom sizes available.

Cooler Sling



Lift-All Cooler Slings will adjust to lift 3, 5 or 10-Gallon water coolers safely and securely to elevated work stations. Connect two or three together to save crane time.

- Made from 2" wide yellow polyester sling webbing.
 - **Rated capacity: 500-lbs.**
 - Three lifting legs hold both cooler and lid securely.
 - Buckles on the two belly bands allow for easy rigging, a snug fit and quick connection.
 - Extra loop on bottom of sling allows for easy attachment of additional hook top cooler slings.
 - Overall sling height is 44".
- Hook Top: **#CSH10**: 4.3 lbs.
Eye Top: **#CSE10**: 3.3 lbs.
Custom sizes available.

Trash Barrel Sling



Lift-All Trash Barrel Slings are designed to lift 32-Gallon plastic trash barrels. Use your forklift or overhead crane to make easy work of moving these heavy barrels.

- Made from 2" wide yellow polyester sling webbing.
- **Rated capacity: 1,000-lbs.**
- Four lifting eyes are tapered and wrapped to help prevent abrasive damage and extend sling life.
- Overall sling height is 51".

Part No. TBS32
Weight: 3 lbs.

Custom sizes available.

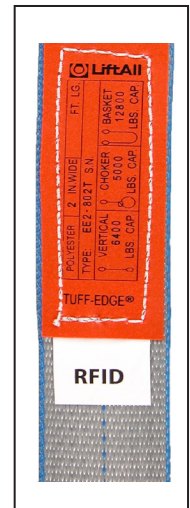
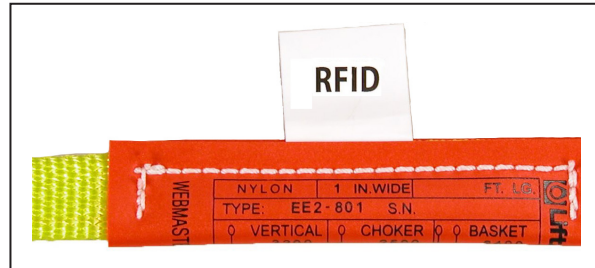
RFID TAGGING

Lift-All offers a high-frequency passive RFID tagging service for new slings.

RFID chips allow end users with RFID readers to electronically track a sling's history to assist with the maintenance, inspection, traceability, and compliance of their slings.

Synthetic slings will have a 5/8" diameter (plastic-coated) high-frequency chip inserted underneath the standard *Tuff-Tag*. The sling will be labeled as containing an RFID chip.

Specials



Wire rope and chain slings are offered with a high-frequency RFID chip, permanently set into a machined teardrop shaped piece of steel, and attached to the sling with a wire cable.

Wire rope sling placement is between the *Tuff-Tag* and the swaged sleeve. Chain sling attachment is beside the ID tag on the connector link.

Tag Information

RF Protocol:	ISO15693 / ISO10443
Operating Frequency:	HF - 13.56 MHz
IC Type:	SLI Icode 1024 Bit
Memory Config.:	64 UID Bits (16 digits)
Functionality:	Read and Write
Security:	64 Bit Kill Access Password
Read Range:	Less than 1.0"
Quality Guarantee:	100%
IP Classification:	68



FORK SLEEVES

Lift-All fork sleeves protect your loads from damage caused by the sharp edges of forklift forks. These sleeves are made from heavy-duty *Webmaster*[®] 1600 polyester webbing, easy to install, and long-lasting.



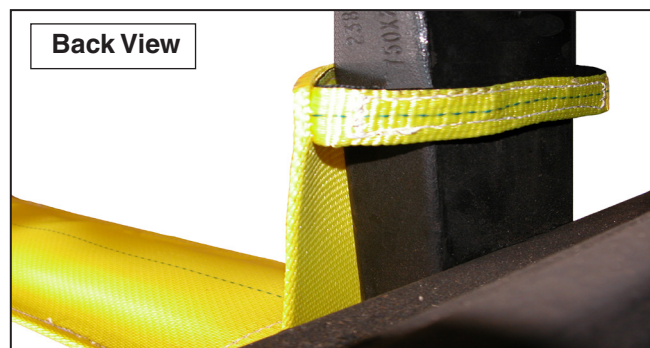
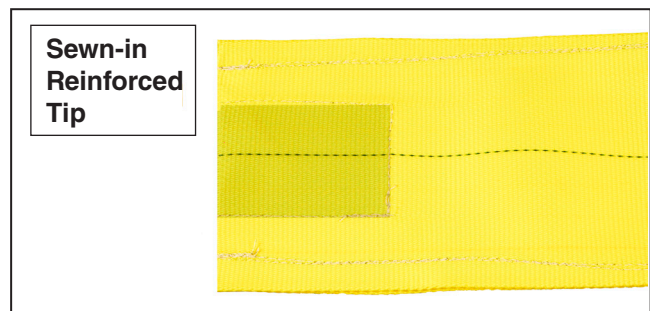
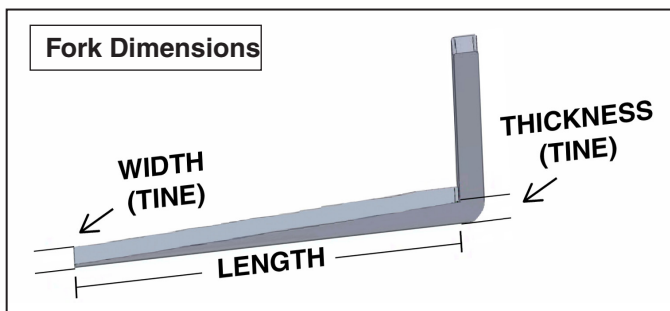
Features and Benefits

- Soft *Webmaster*[®] 1600 polyester sling webbing cushions load to avoid damage.
- 12" long rear flap protects the load from vertical member of fork to avoid damage.
- Retaining straps keep sleeve on forks, saving time.
- Quick and easy to install.
- Sewn-in reinforced tip available to prolong life of sleeve, saving you money.

Standard Sleeve - Fork Dimensions			
Part Number*	Fork Width	Fork Length	Fork Thickness
FKSL4A	3" and 4"	48"	1.5"
FKSL5B	5"	54"	1.5" up to 2"
FKSL6D	6"	84"	1.5" up to 4"
FKSL8B	8"	84"	1.5" up to 2"

Reinforced Tip Sleeve - Fork Dimensions			
Part Number*	Fork Width	Fork Length	Fork Thickness
FKSLT4A	3" and 4"	48"	1.5"
FKSLT5B	5"	54"	1.5" up to 2"
FKSLT6D	6"	84"	1.5" up to 4"
FKSLT8B	8"	84"	1.5" up to 2"

*Part Numbers are one each - Not a pair.



SHACKLE PADS

Always Protect Synthetic Slings from Edges

Shackles commonly contain screw threads and inlets to pin openings. These edges need to be guarded from contact with synthetic slings. Always use shackle pads in these areas to prevent possible equipment damage or injury to personnel from a loss of load.

Specials

Features and Benefits

Promotes Safety

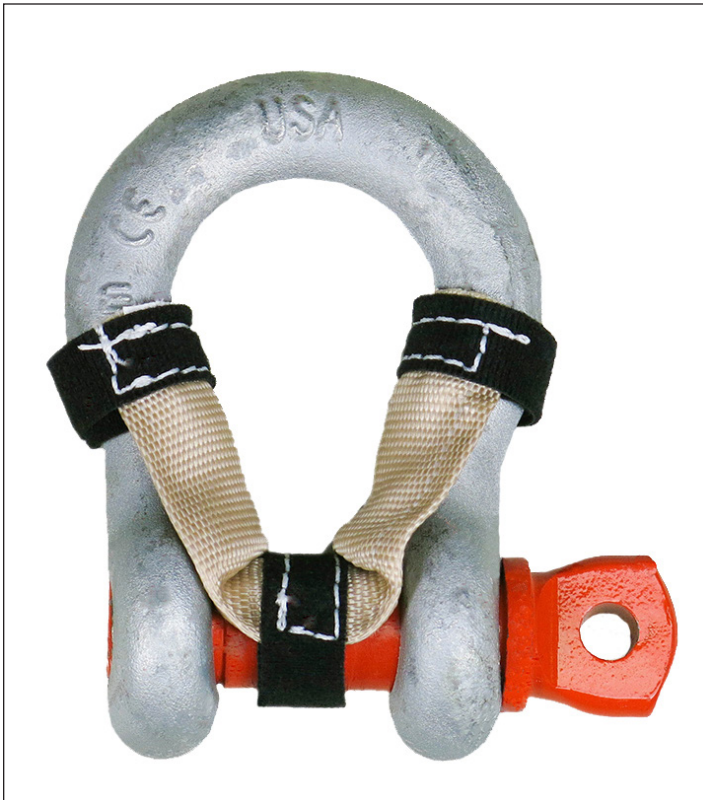
- Prevents possible equipment damage or injury to personnel from a loss of load.

Saves Money

- Costs less to replace than expensive rigging hooks.

Saves Time

- Quick installation. The pad can be quickly installed using the Velcro® strips.
- Lightweight construction.
- Pad may be used on either end of the shackle.



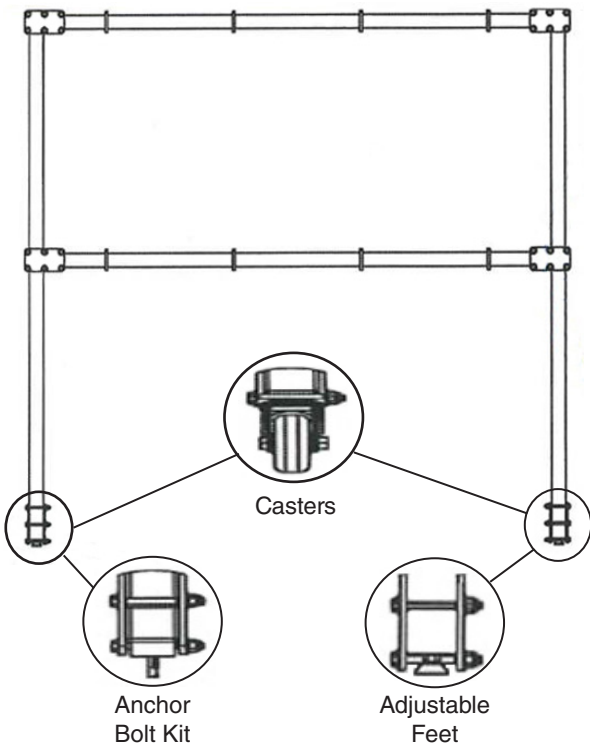
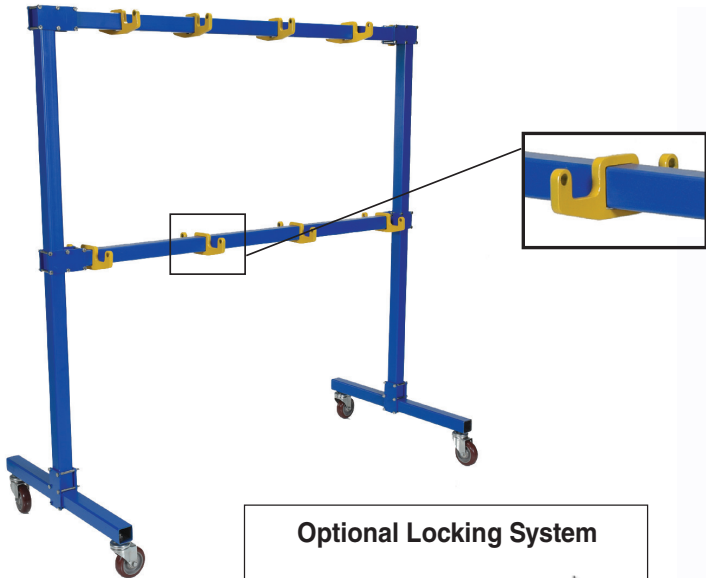
Shackle Size	Part Number
5/8"	58SP
3/4"	34SP
1"	1SP
1-1/4"	114SP
1-1/2"	112SP
1-3/4"	134SP
2"	2SP
2-1/2"	212SP
3"	3SP



GANTRY SLING RACK

A great addition to any manufacturing or industrial facility

Specials



- Strong steel construction.
- Blue powder-coated toughness.
- Adjustable double hooks - max capacity 150-lbs.
- Eight double hooks are standard.
- Comes with adj. feet, casters, and anchor bolt kit.
- Capacity using adj. feet and anchor bolt kit: 2,000-lbs.
- Capacity using casters: 1,200-lbs.
- Optional: extra hooks and hook lock.

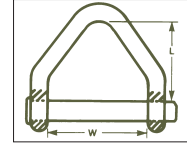
Part Number	Description	Weight
SLR-UM-6	Universal Sling Rack	164-lbs.
SLR-LS	Locking System	24-lbs.
SLR-HK	Extra Set Double Hooks	15-lbs.

LIFT-ALL HULL SAVER™ BOAT SLINGS

Polyester** web slings designed especially for use with travel lifts to lower and retrieve large boats

Features and Benefits

- 2-Ply *Hull Savers* are the standard for improved durability and UV resistance.
- *Tuff-Tag* provides required OSHA information for the life of the sling in a marine environment.
- *Lift-All* trained professionals are available for recommended seasonal inspection.
- Optional keel pad lead weights accelerate sinking to required lift depth.
- Quick disconnects are available to improve productivity.
- Extra eye offers versatility.
- Low-stretch polyester webbing helps to avoid scuff damage to hulls**.
- Optional chine & keel pads protect boat and increase sling life.
- Edge guard wear resistant material available to protect sling from abrasion.



Ply	Hull Saver Part Number	Width (in.)	1Rated Capacity* (lbs.)	Optional Pull Pin Shackles			
				Shackle Part Number	W (in.)	L (in.)	Weight (lbs.)
Two Ply	HS2804	4	23,000	4WSH	4	3.75	3.2
	HS2806	6	32,600	6WSH	6	4.75	6.8
	HS2808	8	38,400	6WSHHD			9.8
	HS2810	10	44,800	6WSHHD			
	HS2812	12	48,000/53,800 ²	6WSHHD ²			

¹ Rated capacity is the rating of one sling in a vertical basket hitch.

² De-rate sling to 48,000 when used with 6" HD Shackle (6WSHHD).

** Nylon webbing is available, but will stretch about 50% more than polyester and should not be used near acids.

Polyester should not be used near caustics.

Note: *Lift-All* will manufacture boat slings to fill your particular needs for width, length and capacity.

Safe Operating Practices

- Inspect slings prior to each use and do not use if damaged.
- Never allow people aboard the boat while it is suspended by slings.
- Never work under or near a boat suspended by slings.
- Boats must be properly blocked and stabilized before removing slings.
- *Hull Saver* boat slings are capacity rated for vertical basket lifts. Do not exceed rated capacities.
- When lifting with extra eyes, direction of pull must always be away from center point of the original sling length.

Environmental Considerations

- Nylon and polyester degrade at temperatures above 200°F.
- Prolonged exposure to ultraviolet light adversely affects nylon and polyester. Slings become bleached and stiff when exposed to sunlight or arc welding.
- Many acids, alkali and chemicals have an adverse effect on nylon and polyester. See Chemical Environment Data chart in WEB section of this catalog.

Remove from service if any of the following is visible:

- Sling is bleached or stiff due to sunlight exposure.
- Capacity tag is missing or illegible.
- Red core warning yarns are visible.
- Sling shows signs of melting, charring or chemical damage.
- End fittings are excessively pitted, corroded, distorted, cracked or broken.
- Cuts on the face or edge of webbing.
- Holes, tears, snags or crushed web.
- Signs of excessive abrasive wear.
- Broken or worn threads in the stitch patterns.
- Any other visible damage.

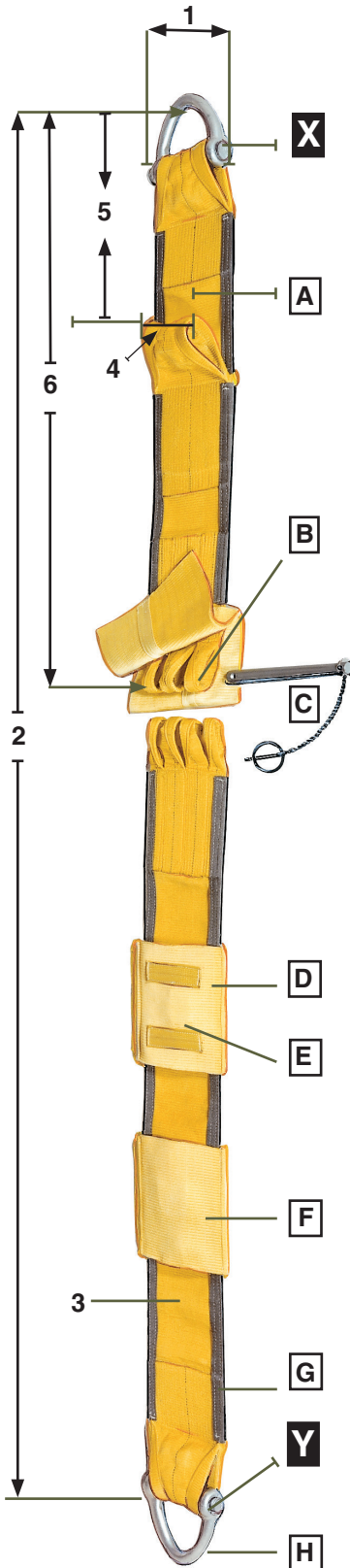
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WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in HELP section.

LIFT-ALL HULL SAVER™ BOAT SLINGS

Specials



STANDARD BOAT SLING MEASUREMENTS

- 1. Sling Width (in.) _____
- 2. Sling Length (ft.) _____
- 3. 2-Ply _____ STANDARD _____
- 4. Width of eyes (in.) _____

SLING MATERIAL

Low stretch polyester webbing is standard which helps to reduce chine marring. Nylon webbing is available, but will stretch about 50% more than polyester. Should not be used near acids.

- POLYESTER Natural or Treated* (circle choice) *Polymer treatment extends sling life.
- NYLON Natural or Treated* (circle choice)

BOAT SLING ACCESSORIES

- A. Extra Eyes** for shortening sling to lift smaller craft (Measurement #5)
 - Extra Eye #1: Position _____ ft. from point X or Y (circle one)
 - Extra Eye #2: Position _____ ft. from point X or Y (circle one)
 - Extra Eye #3: Position _____ ft. from point X or Y (circle one)
- B. Quick Disconnect With Flaps** (Measurement #6):

Saves time needed to lower the lift for removing slings from the hooks. Available for 6" or wider only. Protective flap to cover pin is standard.
Position _____ ft. from point X or Y (circle one)
- C. Pin for Quick Disconnect:** This reusable pin is necessary for Quick Disconnect operation. Pin is galvanized for corrosion resistance; GAC wire with retaining clip holds pin in place.
- D. Keel Pad:** Helps protect the sling from abrasion and cutting. Sliding sleeve style allows sling to adjust to center point without scraping along keel. Pad uses the same webbing as the sling. Standard length is 48".
 - Sliding Style: Length _____ ft.
 - Sewn-on Style: Length _____ ft. Starting _____ ft. from X or Y
- E. Keel Pad Weights:** Lead weights allow for speedy submersion of sling.
- F. Chine Pads:** Help to protect boat chines, rub rails, and the sling from abrasion damage. Sliding pad can be positioned to accommodate any size and style of boat. May be sewn to sling per your specification. Pad uses the same webbing as the sling. Standard length is 48".
 - Sliding Style: Quantity _____ Length _____ ft.
 - Sewn-on Style: Quantity _____ Length _____ ft.
Starting _____ ft. from X / Y
- G. Edge Guard:** Special wear resistant webbing applied to sling edges to help protect the sling from abrasion.
- H. Pull Pin Shackles:** Promotes sling life by protecting eyes of sling. Easier attachment of sling to lifting hook. Galvanized steel for corrosion resistance; reusable.
 - Quantity _____

